fire feature

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Installation Operation & Maintenance Manual

Check local codes and read all instructions prior to installation.

H38VO-ST Gas Fireplace

H38VO-ST
Outdoor

HL38VO-ST
Linear Outdoor

HL38VO-ST Outdoor Linear Shown

⚠ WARNING: FOR OUTDOOR USE ONLY

⚠ Warning:

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

Safety Notice:

Glass doors on gas fireplaces are extremely hot while the fireplace is on and remain hot even after the fireplace has been turned off. Safety screens are available and can reduce the risks of severe burns.

For Your Safety:

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

⚠ Warning:

What to do if you smell gas

- ***Do not try to light any appliance.***
- ***Do not touch any electrical switch; do not use any phone in your building.***
- ***Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.***
- ***If you cannot reach your gas supplier, call the fire department.***

- *Installer: Leave this manual with the appliance.*
- *Consumer: Leave this manual for future reference.*

⚠ Warning:

Read this manual before installing, operating or troubleshooting this appliance. Please retain this owner's manual for future reference.

Congratulations

Congratulations on selecting a FireFeature gas fireplace, an elagent and well designed gas fireplace built to your specifications. The Firefeature gas fireplace you have selected is designed to provide the utmost in safety, reliability, and engineering standards.

As the owner of this new fireplace, you'll want to read and carefully follow all the instructions contained in this Installation, Operations and Maintenance manual. Pay special attention to all cautions, warnings, and Important warnings.

This owner's manual should be retained for future reference. We suggest that you keep it with all your other important documents and product manuals.

The information contained in this owner's manual, unless noted otherwise, applies to all models, and gas control systems.

Your new FireFeature gas fireplace will give you years of durable, reliable use. Welcome to the FireFeature family of gas fireplace products.

⚠ *Safety Alert Key:*

- ***DANGER!*** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- ***WARNING!*** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- ***CAUTION!*** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- ***NOTICE:*** Used to address practices not related to personal injury.
- ***Important:*** *Used to address practices not related to personal injury.*

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Safety Alert Key

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Introduction

Thank You for choosing a FireFeature Gas Fireplace.

About this Fireplace:

The **H(L)38VO-ST** is a Vent-free fireplace which is design exclusively for outdoor use. It is available in Stainless steel with the Traditional logset or in the linear-style burner. This fireplace is currently available in the H38DVO-ST and HL38VO-ST models.

The **H38VO-ST** is rated for Natural Gas at 26,000 BTU/H (7.62 Kilowatts) Input or Propane at 26,000 BTU/H (7.62 Kilowatts) Input.

- **H38VO-ST;** Vent Free, Millivolt Pilot.
- **H38VO-ST-I;** Vent Free, Intermittent Pilot (HSI).
- **H38VO-ST-F;** Vent Free, Electronic Ignition

The **HL38VO-ST** is rated for Natural Gas at 26,000 BTU/H (7.62 Kilowatts) Input or Propane at 26,000 BTU/H (7.62 Kilowatts) Input.

- **HL38VO-ST;** Vent Free, Millivolt Pilot.
- **HL38VO-ST-I;** Vent Free, Intermittent Pilot (HSI).
- **HL38VO-ST-F;** Vent Free, Electronic Ignition

How to use this manual:

This manual covers installation, operation and maintenance. Lighting, operation and care of this fireplace can be easily performed by the homeowner. However, all installation and service work should be performed by a qualified or licensed installer, plumber, or gasfitter who is qualified or licensed by the state, province, region, or governing body in which the appliance is being installed.

This manual covers all models and unless otherwise specified, the designation **H38DF-SVO** refers to all models. Sections which are specific to a particular model are marked with a ⬬ symbol, plus the appropriate model number.

Warranty and Installation Information:

The Montigo warranty will be voided by, and Montigo disclaims any responsibility for, the following actions:

- Modification of the fireplace and/or components including Direct-Vent assembly or glass doors.
- Use of any component part not manufactured or approved by Montigo in combination with this Montigo fireplace system.
- Installation other than as instructed in this manual.

Consult your local Gas Inspection Branch on installation requirements for factory-built gas fireplaces. Installation & repairs should be done by a qualified contractor.

Installations in Canada must conform to the current **CAN/CGA B-149.1** and **.2** Gas Installation Code and local regulations. If the optional air-circulating fan kit is installed, it must be electrically grounded in accordance with **CSA C22.1** Canadian Electrical Code Part 1 and/or Local Codes.

Installations in the USA must conform to local codes, or in the absence of local codes to the National Fuel Gas Code, **ANSI Z223.1-1988**. If the optional air-circulating fan is installed, it must be grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, **ANSI/NFPA 70-1987. See Appendix A** for installation within the **State of Massachusetts.**

⚠ CAUTION!

Due to its high operating temperatures, the appliance should be located out of traffic & away from furniture and draperies.

- Children and adults should be alerted to the hazards of the high surface temperature, which could cause burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.

⚠ WARNING!

When this appliance is installed directly on carpeting, tile or any combustible material other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the appliance.

Installing The Fireplace Shell

The fireplace may be installed in a location that maintains clearances to ALL exterior furniture, appliances and other exterior equipment. Safety, as well as efficiency of operation, must be considered when selecting the fireplace location. Try to select a location that does not interfere with foot traffic, has adequate ventilation, and offers an accessible pathway for ventilated gasses. See page 4.

Installation

The fireplace dimensions with the Optional Stainless steel cover, shown below. (Note: This model is intended as a stand-alone).

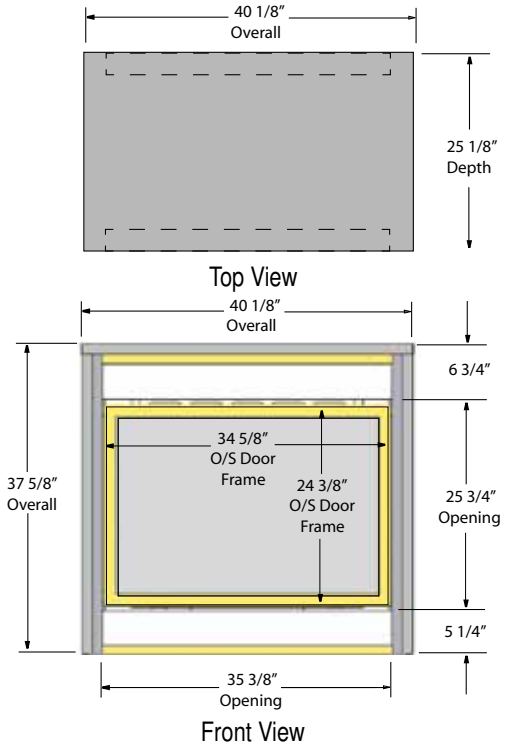


Figure 1. *Fireplace dimensions. (With Optional surround)*

The fireplace dimensions without the Optional Stainless steel cover, shown below. (Framing for the Fireplace without the Optional stainless steel cover shown below).

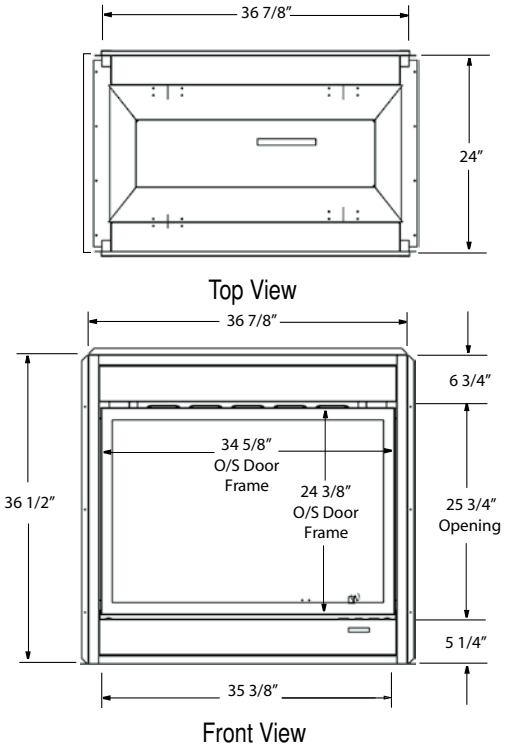
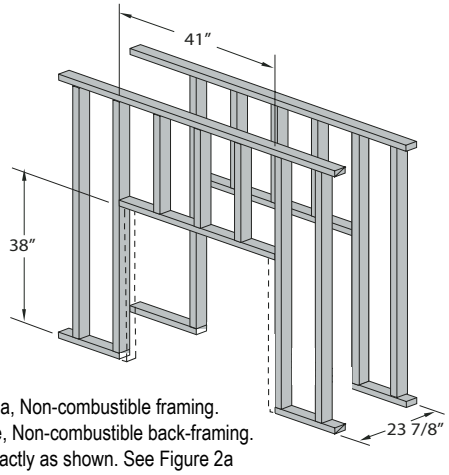


Figure 1a. *Fireplace dimensions. (Without Optional surround)*

Framing *(stand-alone)*:

For Fireplace without the Optional Stainless steel surround.



- Shaded area, Non-combustible framing.
- Dashed line, Non-combustible back-framing. May not be exactly as shown. See Figure 2a below. Both walls typical.

Figure 2. *Framing dimensions (without Optional surround).* Must be back-framed as shown in Figure 2a below.

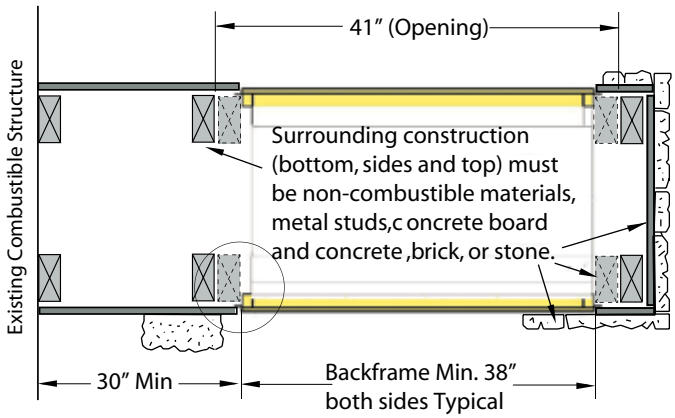


Figure 3. *Framing dimensions (without Optional surround). Distance from Existing Structures.* (Please follow Appendix A - Termination locations, when considering a location for your fireplace).

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Installation

When installing this fireplace as shown in Figure 5, the outer shell is not to be installed. Follow Figures 2,3 (wall installation) and Figure 5 (MIN size enclosure for patio or other contemporary installation) to frame around the fireplace chassis.

Note: *ONLY Non-combustible materials* must be used in construction of the enclosure. (top, bottom and sides). Steel studs in combination with concrete, rock, or stone finishing materials, are acceptable. See Figures 2, 3 and 5.

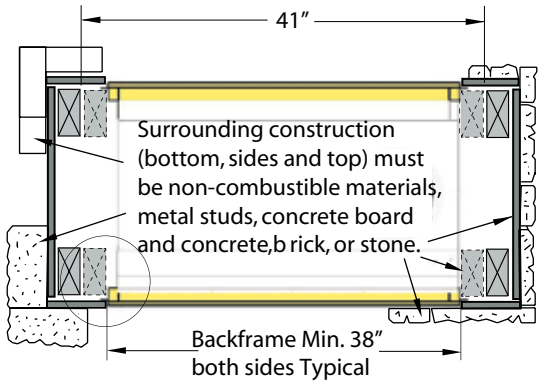

Figure 5. *Back framing dimensions. (without Optional surround)*

WARNING!

When this appliance is installed directly on exterior carpeting, tile or any combustible material other than wood flooring, it must be installed on a metal or wood panel extending the full width and depth of the appliance.

Removing and Installing the Door

H38VO-ST HL38VO-ST

Removing the door:

The doors are removed in a few simple steps. Follow these Steps below to remove the Horizontal access panel, unlatch the door buckles and, remove the door. Replace in reverse order.

Step 1: Remove the Horizontal Access Pan-

Remove the Horizontal cover by placing fingers in both finger holes, then pushng away from you and lifting out. Place it aside during maintenance or cleaning.
Install in reverse order.

Figure 28. *Removing and installing the the Horizontal Acess Panel*

Step 2: Locate the Door Buckles:

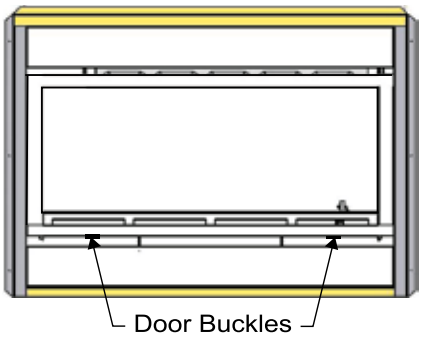

Figure 28a. *Loccate the door buckles. (Both Sides Typical)*

Step 3: Release the Door Buckles

Figure 28b. *Door buckle Tool*

Step 4:

Firmly grasp hand-hold end of Door buckle tool and place the machined end in the slot under door frame. (as shown)

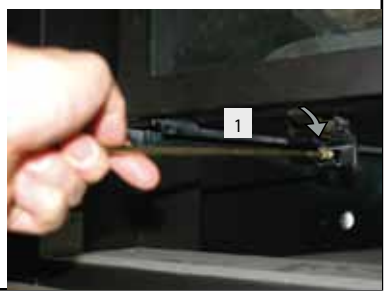

Figure 28c.

Installation

Step 5:
Ensure the tool is firmly in the lower end of the slot, (as shown), Then pull toward you (Caution: hold the tool securely).

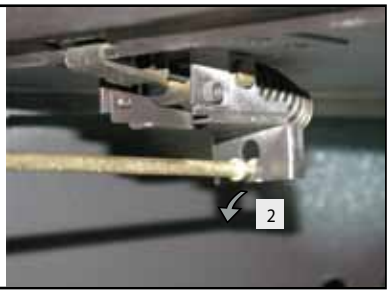

Figure 28d.

Step 6:
Pull hard if necessary to release the spring tension. (Caution: The latch springs back with force, hold the tool securely).

Figure 28e.

Step 7:
Remove the tool from the latch slot. Ensure the latches are hanging freely, the hook end is released from the bottom of the door. (Repeat all 4-steps for the remaining latches).

Figure 28f.

Step 8: ***Removing the Door:***

Grasp the Door on either side, usually midway and lift upward, lift the door carefully up and away from the front of the fireplace. *See figures 28g. Place the Door aside in a safe place while maintenance and / or cleaning is being performed.*

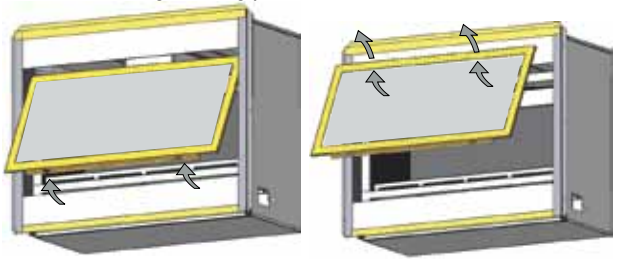

Figure 28g. *Removing and installing the glass doors. (Both Sides Typical)*

Installing the Door:

To install the door, hook the top edge of the door frame into place. Lower the door into position and follow the previous steps shown in reverse order.

WARNING!

Do not attempt to clean glass when hot.

Do not clean glass with abrasive materials as any glass etching may cause premature glass failure.

Do not operate this fireplace without the glass door, or with a broken glass door.

Installing the Glass Beads and Optional River Rocks

Beads

HL38VO-ST

This fireplace is supplied with Designer Glass beads. Remove the Door and trim as shown in the previous Instruction. Follow these instructions to ensure all parts are removed or replaced as required.

Once the Trim and glass doors are removed place the marbles randomly across the pan surrounding the burners as shown in Figure 29.

NOTE: *DO NOT* Cover burners with beads or the optional rocks, as shown in Figure 29.

Note: Ensure the rocks or beads do not cover the Burners

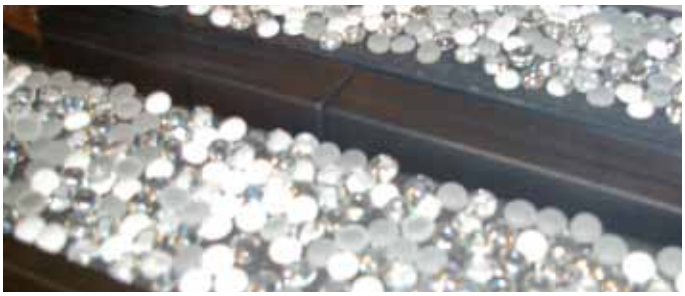

Figure 29. *Installation of glass beads .*

Optional River Rocks

The H(L)38VO-ST has the option of installing the optional cultured rocks which mimic real stone. They are attrative yet designed to withstand a high temperature environment such as inside a gas fireplace. These may be spaced at random, or in a visual pattern of your preference. See the Montigo web site for photographs and ideas.

www.montigo.com

Note: Ensure the rocks or beads do not cover the Burners.

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Installation

Installing the Logs and Embers

Bottom Logs

H38VO-ST

The **H38VO-ST** is supplied with eight (8) fibre logs. The two small bottom logs (*"A"*) are mounted on the burner grate by placing them diagonally onto the supplied Log stands**.** The long Front / Back logs ("B") are placed against the grate as shown in Figure 23c. **Note**: When placing logs, arrange Logs "B" as not to cover Burner holes.

Top Logs

Next are the logs *"C"* which are placed diagonally, as shown in Figure 24d**.** The last Logs *"D"* are then mounted on top of logs *"A"* as shown in Figure 24e.

WARNING: If logs are not placed properly, excessive sooting will result.

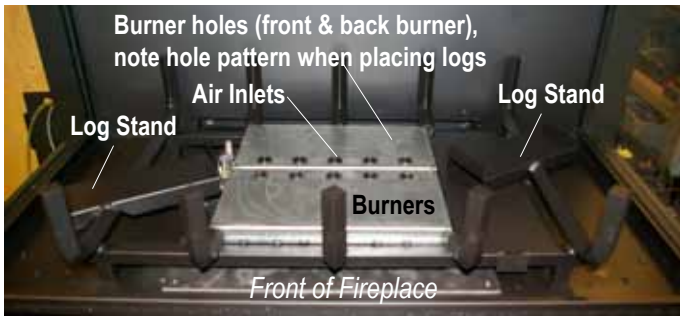


Figure 23a. *(Empty firebox showing the Left & Right stands).*

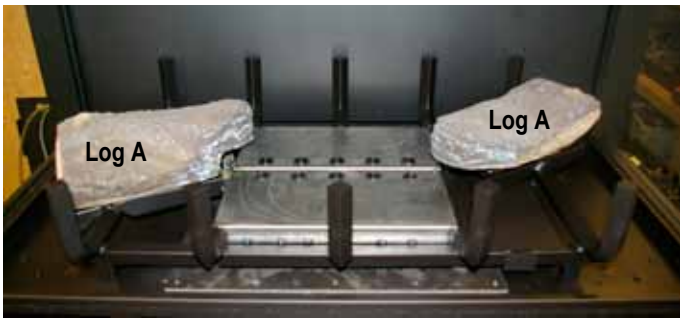


Figure 23b. *(Place Logs' "A" on Left & Right stands).*

Figure 23c. *(Place Logs' "B" as shown, in front of Right-hand "A", and behind Left-hand "B".*

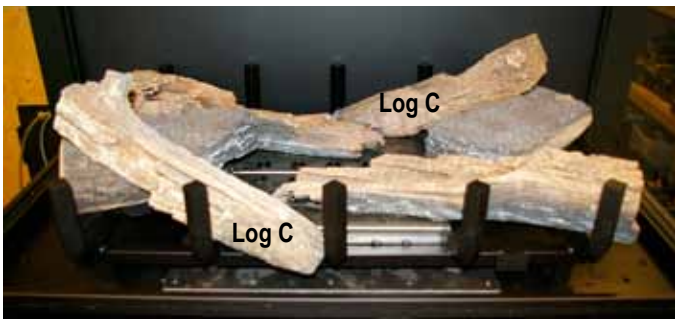


Figure 23d. *Log Installation. (Place Logs' "C" on-top of Logs "A". Indentations on-top of Logs' "A"*

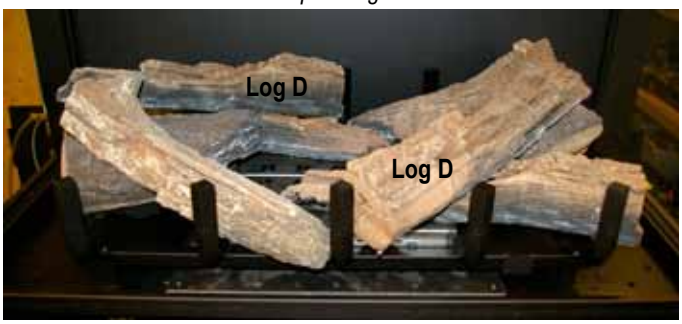


Figure 23e. *Completed Installation.*

Operation - Model H(L)38VO-ST

H38VO-ST HL38VO-ST

with Continuous Pilot

For Your Safety - READ BEFORE LIGHTING:

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, person-

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

What To Do If You Smell Gas:

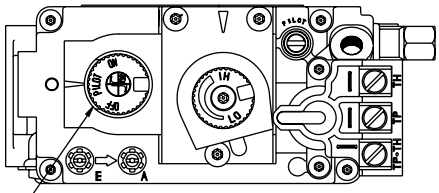
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempt to repair may result in a fire or explosion.

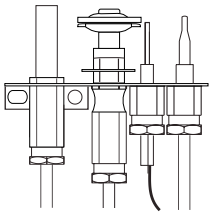
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system, and any gas control which has been under water.

Lighting Instructions:

1. **STOP!** Read the safety information above on this label.
2. Lift out the lower Horizontal access panel.
3. Push in gas control knob and turn clockwise to "OFF."
4. Wait five (5) minutes to clear out any gas. Smell for gas, including near the floor. If you then smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Locate pilot burner *(See illustration at right.)* and follow steps below.
6. Turn knob on gas control counter clockwise to "PILOT."
7. Push in gas control knob completely and hold. Light with Piezo Igniter button. Continue to hold the control knob in for about (1) minute after the pilot is lit. Release the knob and it will pop back up. Pilot should remain lit. If it goes out repeat steps 3 through 8.
   - If knob does not pop up when released. Stop and immediately call your service technician or gas supplier.
   - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
8. Push in gas control knob and turn counter-clockwise to "ON."
9. Replacethe lower Horizontal access panel.
10. Turn on remote switch to ignite fire.



Gas Control Knob
(Shown in "Pilot" postion.)



NOTE: Gas control knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

To Turn Off Gas To Appliance:

1. Turn off remote switch.
2. Lift out the lower Horizontal access panel.
3. Push in gas control knob slightly and turn clockwise to "Off". Do not force.
4. Replace the lower Horizontal access panel.

H38VO-ST-I Operation - Model H(L)38VO-ST-I HL38VO-ST-I

with Honeywell Electronic Ignition

For Your Safety - READ BEFORE LIGHTING:

WARNING: **If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

A. This appliance is equipped with an ignition system that lights the pilot burner automatically. **Do not attempt to light the pilot by hand.**

B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

What To Do If You Smell Gas:

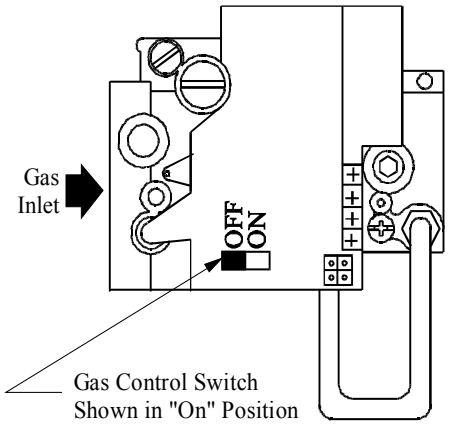
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempt to repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system, and any gas control which has been under water.

Lighting Instructions:

1. **STOP!** Read the safety information above on this label.
2. Lift out the lower Horizontal access panel.
3. Turn switch on the gas control to OFF".
4. Wait 5 minutes to clear out any gas. If you smell gas, **STOP!** Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
5. Turn switch on the gas control to "ON". **NOTE:** This unit is equipped with an ignition system that lights the pilot burner automatically. **Do not attempt to light the pilot by hand.**
6. Turn on wall switch.
7. Replace the lower Horizontal access panel.
8. If the fireplace does not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



To Turn Off Gas To Appliance:

1. Turn off remote switch.
2. Lift out the lower Horizontal access panel.
3. Turn the switch on the gas control to "Off".
4. Replace the lower Horizontal access panel.

Operation

Wiring

Gas Control and Pilot Wiring

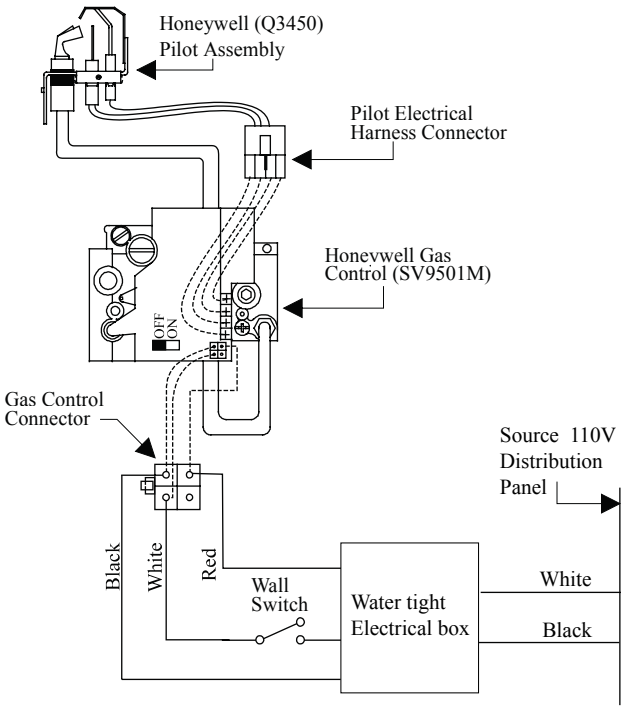


Figure 15. *Wiring for the H(L)38VO-ST-I with Honeywell gas control and pilot.*

CAUTION!

- Fireplace gas control must be in the "OFF" position and pilot and main burners extinguished when cleaning appliance with a vacuum.
- Doors can get very hot. Handle only when cool.

WARNING!

Do not attempt to clean glass when hot.

Do not clean glass with abrasive materials as any glass etching may cause premature glass failure.

Maintenance

General

- **Have the fireplace and installation inspected yearly**. The inspection must include, but is not limited to, the following:
  - A visual check of the entire vent system and termination.
  - An inspection of the explosion relief flappers and the door gasketing to ensure a proper seal.
  - An inspection of the burner, venturi, and primary air openings.
  - An inspection of the gas valve, gas components, and pilot flame. For your convenience a 1/8" manifold pressure tap is supplied on the gas valve for a test gauge connection. See Figure 32.
  - Inspection of all optional equipment; fans, thermostats, etc.
- For **Natural Gas** this appliance requires a minimum inlet pressure of 5.5" W.C. and a manifold pressure of 3.5" W.C.
- For **Propane Gas** this appliance requires a minimum inlet pressure of 11" W.C. and a manifold pressure of 10" W.C.
- Always keep the fireplace area clear and free of combustible materials, as well as gasoline and other flammable vapors and liquids.
- Do not use this appliance if *any part has been under water*. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Cleaning

When the fireplace is first activated, there may be some smoking and a visible film may be left on the glass. This is a normal condition, and is the result of burning of protective coatings on new metal.

- Glass must be cleaned periodically to remove any film (which is a normal by-product of combustion) which may be visible. Film can easily be removed by removing the door, as shown on page 15. Handle the door carefully, and clean it with non-abrasive glass cleaners. One of the most effective products is Kel Kem.
- Silicone seals on inner door during initial firing will "off gas", leaving a visual deposit of a white substance on combustion chamber walls. This can easily be removed using normal household products.
- Use a vacuum cleaner or whisk broom to keep the control compartment, burner, and firebox free from dust and lint.
- Linear Burners may be cleaned periodically with a vacuum to remove soot or other contaminates.

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Maintenance

Gas Control Valve

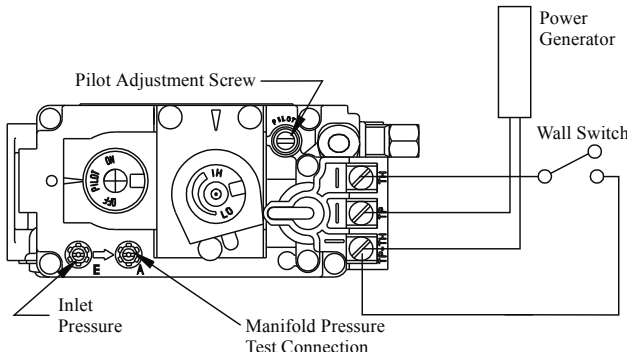


Figure 33. ***Sit Nova 820*** *gas valve.*

Pilot Burner Adjustment

1. Locate Pilot Adjustment Screw. *(See figure 33.)*
2. Adjust pilot screw to provide properly sized flame as shown in *figure 34).*
3. After installing or servicing, leak test with a soap solution with main burner on. Coat pipe and tubing joints, gasket etc. with soap solution. Bubbles indicate leaks. Tighten any areas where the bubbles appear until the bubbling stops completely.

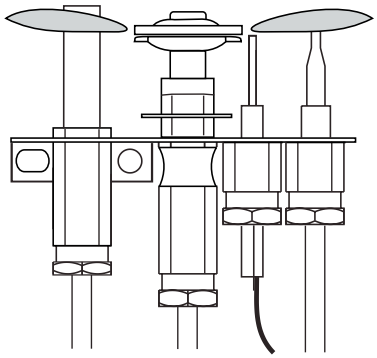


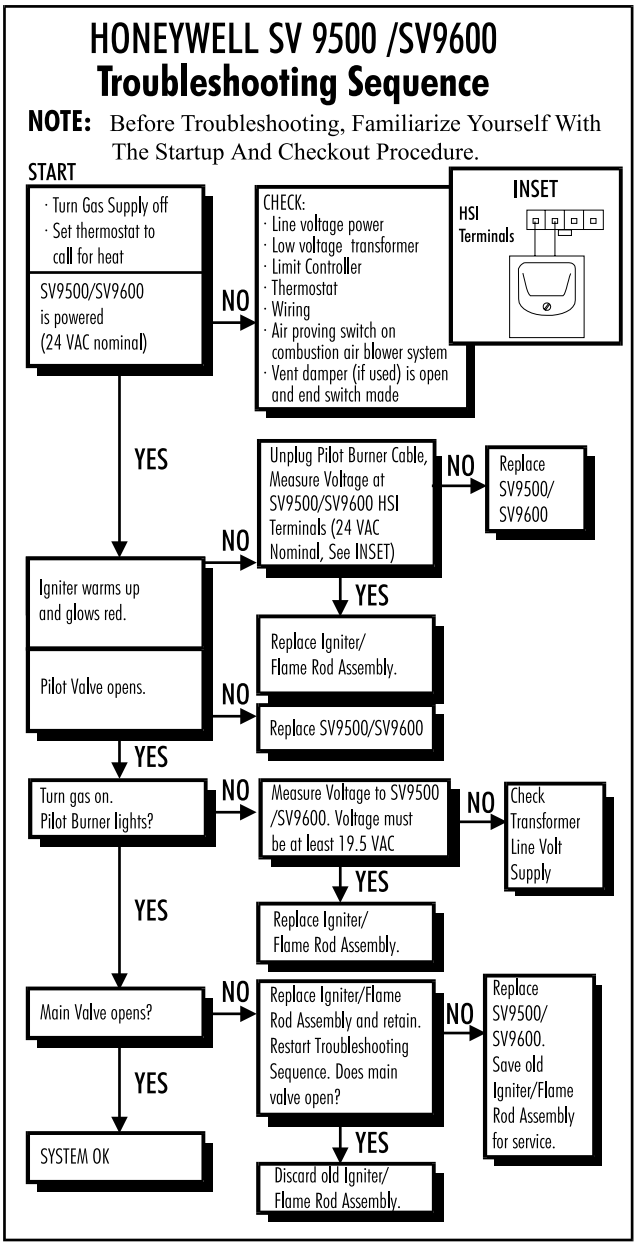
Figure 34. *Pilot Burner.*

Troubleshooting

The following is a troubleshooting chart of possible problems:

PROBLEM	CORRECTIVE ACTION
Noisy Pilot Flame	Locate pilot adjustement screw on gas control valve. Flame is decreased by turning adjustment screw clockwise.
Pilot won't ignite	Disconnect remote wires and try to light pilot. If pilot now works, remote connections are faulty. Check wiring diagram *figure 33*.
Main burner will not light	1. Check wiring (*see figure 33*). 2. Check wall switch for proper connection.

Troubleshooting



If your fireplace still does not operate correctly, consult your dealer or the manufacturer.

All service and repairs should be performed by a qualified agency.

All spare parts, optional fans, and optional trim finishes are available from your local dealer or the manufacturer.

Warranty

The Warranty

The Companies warrants the Montigo Gas Appliance to be free from defects in materials and workmanship at the time of manufacture. On the Montigo, there is a ten-year warranty on the firebox and its components, a five-year warranty on the main burner and pilot burner, and a one-year warranty on the gas control valve and fibre logs. Glass, plated/painted finishes, and refractory lining are exempt.

Remedy And Exclusions

The coverage of this Warranty is limited to all components of the Gas Appliance manufactured by The Companies.

This Warranty only covers Montigo Gas Appliances installed in the United States or Canada.

If the components of the Gas Appliance covered by this Warranty are found to be defective within the time frame stated (see The Companies right of investigation outlined below). The Companies will, at its option, replace or repair defective components of the Gas Appliance manufactured by The Companies at no charge, and will also pay for reasonable labour costs incurred in replacing or repairing components. If repair or replacement is not commercially practical, The Companies will, at its option, refund the purchase price of the Montigo Gas Appliance.

This Warranty covers only parts and labour as provided above. In no case shall The Companies be responsible for materials, components, or construction which are not manufactured or supplied by The Companies, or for the labour necessary to install, repair or remove such materials, components or construction. All replacement or repair components will be shipped F.O.B. the nearest The Companies factory.

Qualifications To The Warranty

The Gas Appliance Warranty outlined above is further subject to the following qualifications:

(1) The Gas Appliance must be installed in accordance with The Companies installation instructions and local building codes. The Warranty on this Montigo Gas Appliance covers only the component parts manufactured by The Companies. The use of components manufactured by others with this Montigo Gas Appliance could create serious safety hazards, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes. This warranty does not cover any damages occurring from the use of any components not manufactured or supplied by The Companies

(2) The Montigo Gas Appliance must be subjected to normal use. The Gas Appliances are designed to burn gas only. Burning conventional fireplace fuels such as wood, coal or any other solid fuel will cause damage to the Gas Appliance, will produce excessive temperatures and will result in a fire hazard.

Limitations On Liability

It is expressly agreed and understood that The Companies sole obligation, and purchaser's exclusive remedy under this Warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above.

In no event shall The Companies be responsible for any incidental or consequential damages caused by defects in its products, whether such damage occurs or is discovered before or after replacement or repair, and whether or not such damage is caused by The Companies negligence. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The duration of any implied warranty with respect to this Montigo Gas Appliance is limited to the duration of the foregoing warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above may not apply to you.

Investigation Of Claims Against Warranty

The Companies reserves the right to investigate any and all claims against this Warranty and to decide upon method of settlement.

The Companies Are Not Responsible For Work Done Without Written Consent

The Companies shall in no event be responsible for any warranty work done without first obtaining The Companies written consent.

Dealers Have No Authority To Alter This Warranty

The Companies employees and dealers have no authority to make any warranties nor to authorize any remedies in addition to or inconsistent with those stated above.

How To Register A Claim Against Warranty

In order for any claim under this Warranty to be valid, The Companies must be notified of the claimed defect in writing or by telephone, as soon as reasonably possible after the defect is discovered. Claims against this Warranty in writing should include the date of installation, and a description of the defect.

Other Rights

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

NOTE: *The Companies* as stated above refer to - Canadian Heating Products Inc. and/or Montigo Del Ray Corp.

Canadian Heating Products Inc. and/or Montigo DelRay Corp. reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products.

Part No. XG0817(O) - 090109

Appendix A - State of Massachusetts

Amendment

(Gas Fireplace / Equipment sold in the State of Massachusetts)
5.08: Modifications to NFPA-54, Chapter 10

(1) Revise NFPA-54 section 10.5.4.2 by adding a second exception as follows:
Existing chimneys shall be permitted to have their use continued when a gas conversion burner is installed, and shall be equipped with a manually reset device that will automatically shut off the gas to the burner in the event of a sustained back-draft.

(2) Revise 10.8.3 by adding the following additional requirements:
(a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors
a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. APPROVED CARBON MONOXIDE DETECTORS. Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

3. SIGNAGE. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, “GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS”.

4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.
(b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

1. The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and
2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:
1. Detailed instructions for the installation of the venting system design or the venting system components; and
2. A complete parts list for the venting system design or venting system.

(d) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies “special venting systems”, the following requirements shall be satisfied by the manufacturer:
1. The referenced “special venting system” instructions shall be included with the appliance or equipment installation instructions; and
2. The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.
(e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

(3) After NFPA-54 section 10.10.4.2 add a new section 10.10.4.3 as follows:
When more than four gas appliances are to be vented through a common gas vent or common horizontal vent manifold, a plan of the proposed vent installation shall be submitted to the Inspector and the serving gas supplier for review and approval.

Extraction from: Massachusets Rules and Regulations
5.00: Amendments To 2002 Edition Of ANSI Z223.1-NFPA-54

Notes

Part No. XG0817(O) - 090109

Notes

XG0211(O) - 090109

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